

FIG. 1

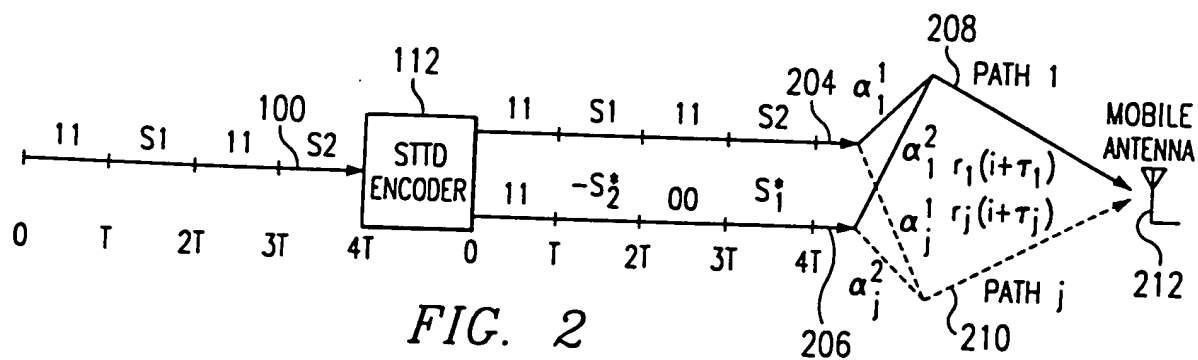


FIG. 2

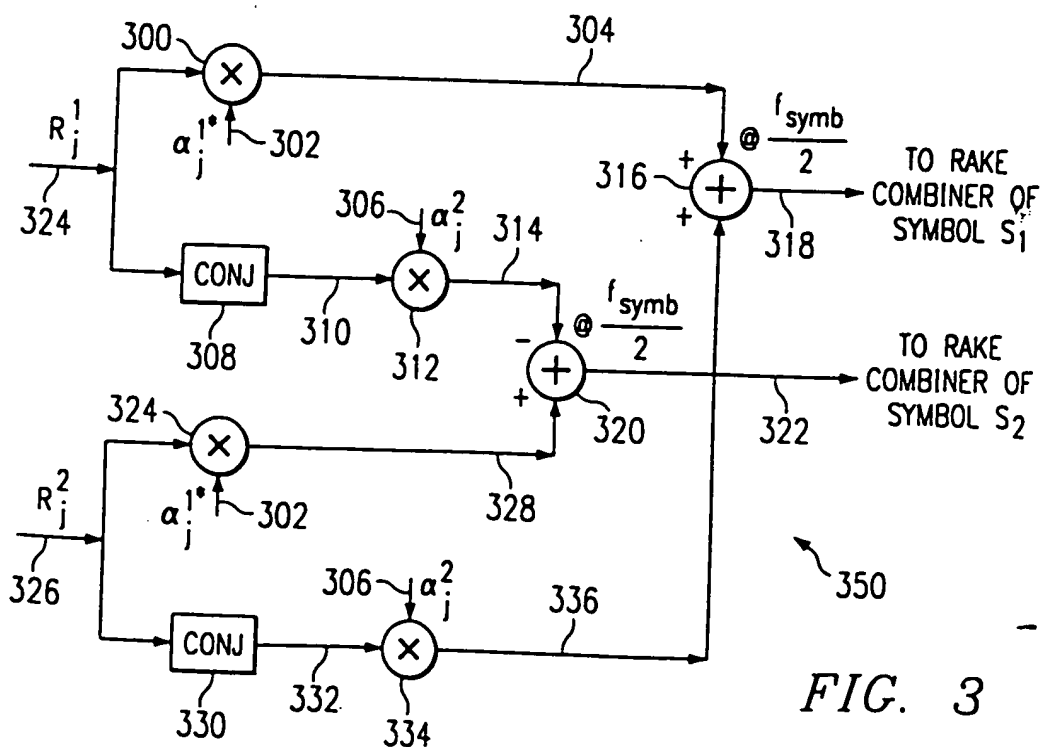


FIG. 3

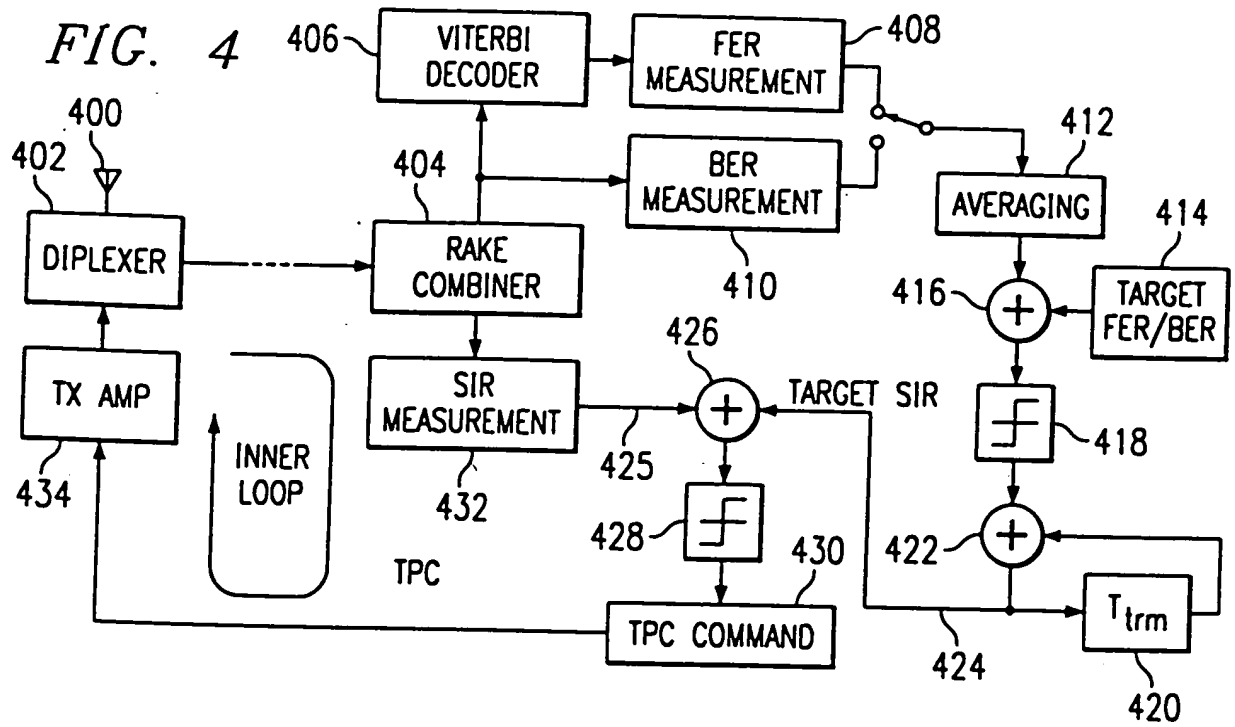




FIG. 5

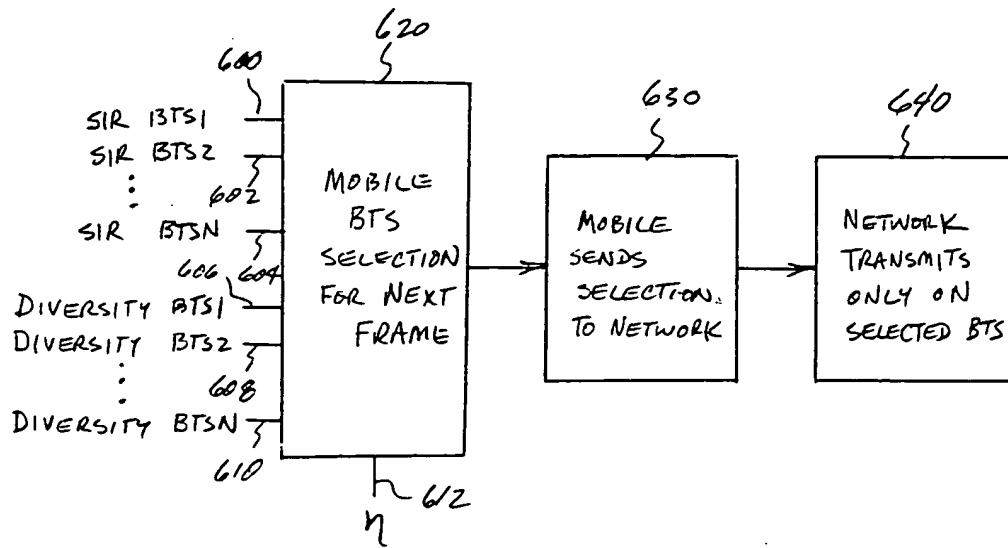


FIG. 6

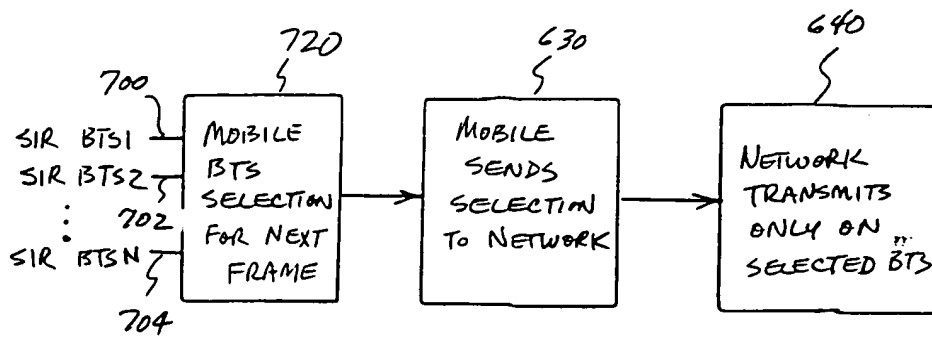


FIG. 7
(PRIOR ART)

Simulation environment	Indoor-to-outdoor pedestrian
Velocity	3 kmph
Data rate	32 KSPS
Information bit rate	8 Kb/s
Info/CRC/tail bit per frame	80/16/8
Convolutional coding rate	1/3, k = 9
Repetition	8 bits/10 ms (312 -> 320)
Interleaver	10 ms, 16*20
DCCH bits/frame	96
Pilot/TPC/TFI bits per slot	8/2/0
Channel Estimation	Perfect
Number of base stations in soft handoff	3
Simulation condition: only SSDT	No antenna diversity at any of the 3 base stations
Simulation condition: STTD + SSDT	Two transmit antennas with STTD encoding at each of the 3 base stations
Relative average powers of soft handoff base stations at the mobile	equal
Base station selection at mobile	Only SSDT : Based upon maximum received power STTD+SSDT: Based upon maximum received power
Frequency of base station selection for SSDT	Once per frame (10 msec.)
Up link errors in base station selection for SSDT (FBI bit error rate)	None
Forward link power control	Only SSDT: One slot averaging for the selected base station STTD+SSDT: One slot averaging for the selected base station
Power control step (dB)	1
Power control rate (Hz)	1600
TPC update delay (slots)	1
TPC error rate	5%
Desired coded BER	10^{-3}

FIG. 8

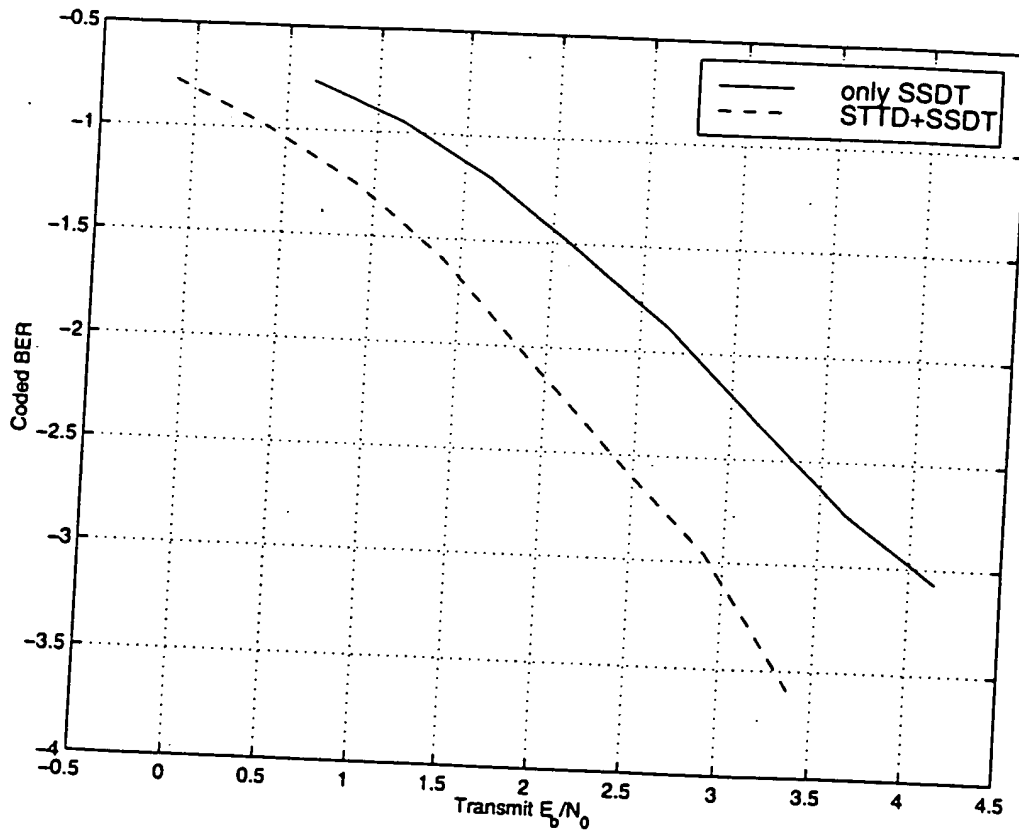


FIG. 9